

Roll No. : .....

Total No. of Questions : 11 ]

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# **BPF-2195**

**M.Sc. (Final) Examination, 2022**

**ZOOLOGY**

Paper - VIII (c)

**(Entomology)**

*Time : 3 Hours ]*

*[ Maximum Marks : 75*

**Section-A**

**(Marks : 2 × 10 = 20)**

*Note :-* Answer all *ten* questions (Answer limit **50** words). Each question carries **2** marks.

**Section-B**

**(Marks : 5 × 5 = 25)**

*Note :-* Answer all *five* questions. Each question has internal choice (Answer limit **200** words). Each question carries **5** marks.

**Section-C**

**(Marks : 10 × 3 = 30)**

*Note :-* Answer any *three* questions out of five (Answer limit **500** words). Each question carries **10** marks.

**Section-A**

1. (i) Differentiate between :
  - (a) General and Specific Pest
  - (b) Regular and Sporadic Pest

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- (ii) What kind of damage is caused by borers ?
- (iii) Define Synergism.
- (iv) Name *two* Organophosphate Insecticides.
- (v) What are Chemosterilants ? Give *one* example.
- (vi) Name *two* major pests of sugarcane and classify them.
- (vii) Write Zoological names of *four* species of honeybee.
- (viii) Name the vector causing Leishmaniasis and classify it.
- (ix) Differentiate solitary and gregarious locust.
- (x) Name the different morphs found in the life-cycle of aphids.

### **Section–B**

2. Write an account on botanicals used in insect control.

*Or*

Describe 'Biological Control'.

3. Classify and discuss insecticides on the basis of mode of entry.

*Or*

Write a note on Sprayers.

4. Write a note on pheromones as insect control agents.

*Or*

Write the Zoological names, classification and nature of damage caused by any *five* major insect pests, studied by you.

5. Write a note on lac-culture.

*Or*

Discuss dipterans as vectors of diseases and their control.

6. Describe intra-specific relations met within insects.

*Or*

Discuss the role of temperature and humidity as physical factors in the life of insects.

**Section-C**

7. What is IPM ? Discuss.
8. Describe chemical nature, mode of action and method of application of any *four* organo-chlorine insecticides.
9. Discuss life-history, damage caused and control of any *three* stored grain pests.  
Add a note on safe storage.
10. Write notes on the following :
- (i) Sericulture
  - (ii) *Two* insect borne diseases of man
11. Discuss social life in Hymenoptera and add a note on caste-determination in the group.